

News Letter

SOCIETY OF AMERICAN BACTERIOLOGISTS

OFFICE OF THE
SECRETARY-TREASURER

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1949 OFFICERS AND COUNCILORS

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W.L.Owen, Baton Rouge, La. --- South Central
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Orville Wyss, Austin, Texas --- Texas
W.F.Skinner, Richmond, Va. --- Virginia
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Invited Members (Council Action of 1938):

Barnett Cohen, Editor-in-Chief, BACTERIOLOGICAL REVIEWS
A.P.Hitchens, Editor, Section C, BIOLOGICAL ABSTRACTS
J.R.Porter, Chairman, Program Committee
J.M.Sherman, Editor-in-Chief, JOURNAL OF BACTERIOLOGY

Council Policy Committee (Constitutional Revision of 1946):

W.McD.Hammon, Chairman	H.J.Conn
J.E.Blair, Secretary	Barnett Cohen
J.M.Sherman	L.S.McClung (1949)
N.R.Smith (1950)	H.J.Shaughnessy (1951)

GOLDEN JUBILEE, BALTIMORE, 1950

The 50th general meeting, the Golden Jubilee of the Society, will be held on May 14 to 18, 1950, in Baltimore, the headquarters being the Lord Baltimore hotel. Registration will begin on Sunday, May 14, and the scientific sessions will start on Monday morning, May 15. The deadline for receiving abstracts of papers is February 15, 1950. The official forms for submitting abstracts will be sent with the next News Letter early in January; those who are planning to present papers are asked to keep this date in mind so that they may be prepared to submit their abstracts soon after receiving the blanks. Groups of alumni and others with a common interest who are planning to hold reunion breakfasts or luncheons are asked to notify Dr. E. Kaplan, Baltimore City Health Department, who will handle reservations for these events.

INCREASED DUES

In response to the ballot sent in the July News Letter the membership has ratified the action taken by the Society at the 49th general meeting in May to increase the annual membership dues to \$9.00, effective in 1950. The returns were as follows:

In favor	492
Opposed	124
Blank ballot	1
Total ballots received	617

THE TEACHING OF BACTERIOLOGY

The Committee on Teaching has recently conducted an extensive survey of the teaching of bacteriology in the United States and has compiled a detailed list of nearly 500 institutions offering graduate and undergraduate courses in microbiology. Included in this information are the degrees offered to majors in bacteriology, the names of the persons responsible for instruction, and the departments or divisions concerned. The Society is indebted to the Committee and particularly to Drs. Randall L. Thompson and M. W. Jennison who have gathered and compiled the data.

The length of the list precludes its publication in the News Letter, but we are glad to present the summary below, which was prepared by Dr. Jennison. Copies of the complete list are being sent to members of the Council and secretaries of the local branches, with the thought that it may be available through them for reference in their geographical areas. A few extra copies will be available for use by those who are especially concerned with teaching and student counselling. These may be obtained upon application to the Secretary-Treasurer at 50 cents a copy, which covers cost and postage. Dr. Jennison's summary follows:

In 1947 the Committee on Teaching initiated a study of the teaching of bacteriology in the United States. The names of institutions which reported the inclusion of courses in bacteriology in the curriculum were secured from directories. Through the efforts of the officers of the Local Branches and the members of the Committee, the name of the person believed to be responsible for the teaching of bacteriology in each institution was determined. A questionnaire designed to obtain preliminary information was sent to 702 teaching departments. The following report summarizes certain data obtained from 490 replies which were received. Junior colleges were intentionally omitted in the tabulation of the data.

1. The Name of the Division in which bacteriology is taught:

Liberal Arts, 193 institutions; Arts and Sciences, 40; Medical School, 58; Pharmacy College, 7; Dental School, 6; Science, 11; Liberal Arts and Sciences, 8; Veterinary Medicine, 4; Dental and Pharmacy School, 6; Agricultural College, 16; State Teachers' College, 29; Institute of Technology, 6; Public Health, 3; others (a total of 46 different names of Divisions), 1-2 each; not specified, 40.

2. The Name of the Department teaching bacteriology:

Biology, 255 institutions; Bacteriology, 63; Biological Sciences, 24; Botany, 14; Bacteriology and Immunology, 10; Pathology and Bacteriology, 10; Science, 8; Botany and Bacteriology, 7; Microbiology, 7; Bacteriology and Parasitology, 6; Bacteriology and Public Health, 5; Plant Science, 4; Preventive Medicine and Bacteriology, 4; others (a total of 48 different names of departments) 1-2 each.

3. Composition of the Staff:

Category	Number of persons associated with Department (expressed in terms of number of departments)									Over 16
	1	2	3	4	5	6	7	8-10	11-15	
Full time members	241	82	49	29	19	9	7	10	3	2
Full-time members with doctor's degree	200	53	35	20	5	7	2	7	3	
Part-time members	111	61	21	12	9	8	3	1	9	6
Part-time members with doctor's degree	34	15	9	1	3			1		

4. Graduate students:

Candidates for Master's degree	25	24	15	7	7	2	4	12	6	7
Candidates for Doctor's degree	9	11	9	8	4	2	1	7	2	7

5. Fellows

not seeking degrees	37	21	8	3	1	3		1		1
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6. Degrees offered by Departments:

	AB	BS	AM	MS	PhD	ScD	Number of degrees offered by Department				
							1	2	3	4	5
Number of Departments	50	81	49	115	72	7	34	61	42	13	8

7. Courses offered in Department for Students in Professional Schools:

Nursing, 145; Home Economics, 122; Medicine, 90; Agricultural Science, 64; Pharmacy, 53; Public Health, 46; Dentistry, 42; Veterinary Medicine, 19; Medical and Laboratory Technology, 31; Forestry, 5; Engineering, 7; Sanitary Engineering, 6; others (a total of 37 different professional schools) 1-2 each.

8. Formal Courses in Bacteriology and Related Fields given by the Department:

(The number of Departments offering laboratory instruction is indicated by the number in parenthesis).

a) Listed on questionnaire:

General Bacteriology, 450 (444); Pathogenic Bacteriology, 212 (208); Water and Sewage Bacteriology, 85 (85); Milk and Dairy Products Bacteriology 78 (78); Food Bacteriology, 76 (70); Agricultural and Soil Bacteriology, 48 (43); Fermentations, 44 (38); Serology and Immunology, 143 (132); Virology, 80 (60); Mycology, 104 (91); Parasitology, 144 (135); Cultural Courses in Bacteriology, 57 (32); Clinical Laboratory Methods, 83 (88).

b) Other courses offered but not listed in the questionnaire:

Bacterial Physiology and Biochemistry, 31 (21); Systematic and Determinative Bacteriology, 12 (12); Microbiology for Nurses, 19 (19); Bacteriology of Public Health and Sanitation, 18 (7); Electron Microscopy, 1 (1); Genetics of Microorganisms, 1 (1); Disinfectants and Antibiotics, 3 (2); Cytology, 2 (2); Marine Microbiology, 1 (1).

Number of courses and/or
fields covered in bac-
teriology

Number of Departments

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	18	19
151	86	45	39	34	26	23	10	14	8	8	10	4	4	5	1	1

COMMITTEE ON MATERIALS FOR VISUAL INSTRUCTION IN MICROBIOLOGY

The following lantern slides have been added to the collection of the Committee and are available by purchase or rental in either the $3\frac{1}{2} \times 4$ or 2×2 inch sizes. Black and white prints up to 8×10 inches are available by purchase. Mimeographed legends accompany each slide or print.

Lantern
slide no.

Subject

- LS-224 Photograph of table showing correlation between the isolation of the gonococcus from cervical cultures and the phase of the menstrual cycle during which the cultures were taken.
- LS-225 Photograph of crystals of Chloramphenicol (Chloromycetin).
- LS-226 Photograph of cultures of Streptomyces griseus with and without specific bacteriophage.
- LS-227 Photograph of a sporulated culture of Streptomyces griseus containing specific bacteriophage.
- LS-228 Electron micrograph of actinophage particles active against Streptomyces griseus.
- LS-229 Electron micrograph of actinophage particles active against Streptomyces griseus, high magnification.
- LS-230 Photograph of a table evaluating twelve media for isolating the gonococcus.
- LS-231 Ultraviolet photograph of E. coli showing nucleotide metabolism in different growth periods.
- LS-232 Ultraviolet photographs of B. cereus showing nucleotide metabolism in different growth periods.
- LS-233 Ultraviolet photograph of Feulgen treated cells of B. cereus, 18 hour culture.
- LS-234 Ultraviolet photographs of Feulgen treated cells of B. cereus from cultures in the transition between the lag and logarithmic phases and during the decline phase.
- LS-235 Photograph of Bacillus cereus showing cell wall and protoplasmic membrane separated.
- LS-236 Photograph of Bacillus megatherium showing the contiguous cell wall and protoplasmic membrane.
- LS-237 Photograph of Bacillus megatherium showing cytoplasm and nuclear material.
- LS-238 Electron micrographs showing internal structure and nuclei of E. coli.
- LS-239 Photographs of E. coli showing differentiation of cell structure by cytological methods.
- LS-240 Electron micrographs of the virus of herpes zoster and of the virus shadowed with gold.
- LS-241 Electron micrographs of granulosis granules of the variegated cutworm.
- LS-242 Electron micrographs of granulosis virus particles after liberation from the granules.
- LS-243 Photomicrographs of blood smears from turkeys showing Borrelia anserina.
- LS-244 Photograph of colonies of Lactobacilli from human saliva, petri dish culture.
- LS-245 Photomicrograph of crystals of procaine penicillin G.
- LS-246 Photomicrograph of crystalline dihydrostreptomycin sulfate.
- LS-247 Photomicrograph of crystals of aureomycin.
- LS-248 Electron micrographs of Borrelia vincentii, strain N19.
- LS-249 Electron micrographs of Borrelia vincentii, strain N19, showing typical granule associated with spirochetal cells.
- LS-250 Electron micrographs of Borrelia vincentii, strain CON.
- LS-251 Electron micrographs of Borrelia vincentii, strain N37.
- LS-252 Electron micrographs of Treponema pallidum, Nichols cultured strain, shadowed with chromium.

The following colored lantern slides have been added to the collection of the Committee and are available by purchase or rental in either the $3\frac{1}{2} \times 4$ or 2×2 inch size. Mimeographed legends accompany each slide.

Lantern
slide no.Subject

- CLS-1 Kodachrome transparency of cultures of Pseudomonas aeruginosa (Bacillus pyocyaneus).
 CLS-2 Kodachrome transparency of cultures of three chromogenic bacteria (Serratia marcescens,
Chromobacterium violaceum, and Pseudomonas aeruginosa.)
 CLS-3, 4,5,6 Kodachrome transparencies of 12 culture media inoculated with a cervical specimen con-
 taining gram-negative diplococci, microscopically. The organisms proved to be a
 glutamine-requiring strain of the gonococcus.
 CLS-7, 8,9 Kodachrome transparencies of 12 culture media inoculated with a cervical specimen not
 containing gram-negative diplococci, microscopically.

The following motion picture films have been reviewed under the auspices of the Committee.
 Abstracts of the films are available at the rate of three cents each from the Chairman of the
 Committee.

<u>Number of Abstract</u>	<u>Title of Film</u>	<u>Length</u>	<u>Production date</u>
160	Clean waters. Co., So.	800	1946
161	Miracle of the Meadows. The story of modern milk. B&W, So.	700	?
162	40 Billion enemies (Preservation of food by refrigeration). Co., So.	850	1941
163	Electronics at work. B&W, So.	850	?
164	Life in a drop of water. Co. and B&W, So.	400	1946
165	Microorganisms in Texas fresh water lakes, Starring stinkers, tasters, and smellers common in Texas lakes. Co., Si.	1250	?
166	Skin antiseptics, evaluation of effectiveness of some widely employed antiseptics. B&W, So.	1100	1948

Communications concerning these slides and abstracts should be directed to Dr. Harry E.
 Morton, Department of Bacteriology, University of Pennsylvania Medical School, Philadelphia 4, Pa.

LABORATORY TRAINING COURSES

The United States Public Health Service has announced a series of training courses during
 1950, each lasting from one to three weeks, giving instruction in the laboratory diagnosis of a
 variety of bacterial, viral, mycotic and parasitic diseases. The courses will be given at
 Atlanta, Georgia; Chamblee, Georgia; or Montgomery, Alabama. Information and applications
 should be requested from the Chief, Laboratory Division, Communicable Disease Center, 291 Peach-
 tree Street, N.E., Atlanta, Georgia.

RADIOISOTOPES FOR RESEARCH

Under a program which will augment the present distribution of reactor-produced radio-
 isotopes, the Atomic Energy Commission has announced that certain cyclotron-produced radio-
 isotopes will be available to research workers in the United States. Only those isotopes
 having half-lives of more than 30 days will be distributed originally. These include 43-day
 beryllium 7, 3-year sodium 22, 44-day iron 59, 4-year iron 55, 250-day zinc 65, 90-day arsenic
 63, and 56-day iodine 125. Other cyclotron-produced radioisotopes of significant value as tools
 of research may be added at a later date.

COMING MEETINGS

The Decennial Conference of the Institute of Food Technologists will be held at the
 Edgewater Beach Hotel, Chicago, on May 21 to 25, 1950.

The International Botanical Congress will be held in Stockholm, July 12 to 20, 1950.

SOMETHING WANTED AND SOMETHING OFFERED

Dr. Michael J. Pelczar, Jr. is seeking cultures of *Neisseria* which meet the description as presented in Bergey's Manual of *N. sicca*, *N. flava* and *N. subflava*, and will be glad to hear from anyone who can supply him with cultures of these organisms. Dr. Pelczar's address is: Department of Bacteriology, University of Maryland, College Park, Maryland.

Appreciating the difficulties often encountered in staining bacterial flagella, Dr. Einar Leifson has offered to do flagella stains on cultures of motile bacteria and to supply a stained slide to the sender. Dr. Leifson offers this service gratis. His address is: Loyola University School of Medicine, 706 South Wolcott Avenue, Chicago, Illinois.

Dr. Carl O. Lindgren, Southern Illinois University, has advised this office of the availability of a 16-page illustrated brochure, "Yeast of Tomorrow", describing the process of microdissection and hybridization of yeast and discussing its significance in the improvement of industrial yeasts. Copies may be obtained upon application to Mr. Paul C. Guignon, Anheuser-Busch, Inc., St. Louis, Missouri.

THE NATIONAL SCIENCE FOUNDATION

The last session of Congress ended without action having been taken to establish the proposed National Science Foundation, the bill (HR 4846) having been held up in the House Rules Committee. The bill was passed by the Senate and approved by the House Interstate and Foreign Commerce Committee. Efforts are now being made to reopen the question at the new session opening in January. The present bill can be brought to the floor of the House either by a favorable vote of the Rules Committee or upon a motion to discharge the Rules Committee. Such a motion would be the responsibility of the chairman of the Interstate and Foreign Commerce Committee, Rep. Robert Crosser (Ohio) and, if made, would be required on the second or fourth Monday of the month. Members of the House Rules Committee are: Adolph J. Sabath (Ill.), E. E. Cox (Ga.), Howard W. Smith (Va.), William M. Colmer (Miss.), Ray J. Madden (Ind.), John E. Lyle, Jr. (Texas), John McSweeney (Ohio), James J. Delaney (N.Y.), Leo E. Allen (Ill.), Clarence J. Brown (Ohio), James W. Wadsworth (N.Y.) and Christian A. Herter (Mass.).

EXCERPTA MEDICA

As many of the members may know, a new abstracting journal, *Excerpta Medica*, was established about two years ago with the stated aim of providing as complete coverage as possible of the world literature in medicine. Abstracts in English are published in fifteen sections covering as many aspects or specialties of medicine. Of these, Section IV deals with Medical Microbiology and Hygiene.

The current list price of Section IV is \$22.50 a year, one volume a year being published. The *Excerpta Medica* Foundation now offers to members of the Society of American Bacteriologists a special rate for Section IV of \$15.00 a year, provided that at least 300 members of the Society subscribe to this section. Subscriptions may begin with the current volume or with the 1950 volume. Members who are interested are asked to communicate with The Williams and Wilkins Company, Mt. Royal and Guilford Avenues, Baltimore 2, Maryland, who are the sole agents in this country for *Excerpta Medica*.

NEWS ABOUT OUR MEMBERS

Dr. Daniel A. Boroff, a recent recipient of the Fulbright Award, will work until September 1950 in the laboratory of Dr. Andre Prevot in the Anaerobic Section of the Pasteur Institute, Paris.

Dr. William M. Hale, for the past eleven years head of the Department of Bacteriology of the State University of Iowa, on July 1st became director of the Division of Bacteriology and Virology at Brookhaven National Laboratory, Upton, Long Island, N.Y. Dr. J. Roger Porter has succeeded Dr. Hale as head of the department at the State University.

Our President, Dr. William McD. Hammon, has been appointed Professor and head of the Department of Epidemiology in the new Graduate School of Public Health of the University of

Pittsburgh. In this position Dr. Hammon will also direct the instruction and research interests of the School in microbiology. Dr. Hammon will assume his new duties on February 1, 1950.

Dr. Leland W. Parr served as chairman of the annual Conference of Professors of Preventive Medicine on October 24 at the Hotel Statler, New York.

Dr. Otto Rahn, Professor Emeritus of Bacteriology at Cornell University, is continuing his work at State College, Pocatello, Idaho. Those members who recall Dr. Rahn's suggestion in the News Letter a year ago that "ambitious retired bacteriologists" would often like to continue their activities after official retirement will be interested to know that Dr. Rahn's new position resulted directly from the note in the News Letter.

Dr. Jonas E. Salk has been promoted to the position of Research Professor of Bacteriology in the School of Medicine, University of Pittsburgh. Dr. Salk is directing the work of the Medical School's Virus Research Laboratory concerned with problems in influenza and poliomyelitis.

Dr. Owen B. Weeks, formerly at North Dakota Agricultural College, is now Associate Professor of Bacteriology at the College of Agriculture, University of Idaho, Moscow Idaho.

DEATHS

The Secretary-Treasurer records with sincere regret the loss of the following members of the Society whose deaths have not previously been reported.

Charles F. Briscoe, Emeritus Member, Professor of Bacteriology at Mississippi State College from 1913 to 1939.

Paul G. Heineman, Emeritus Member, Chief Bacteriologist of Sterling Drug Company, Cook Laboratories Division, from 1922 to 1939.

William B. Aull, Clemson, S.C.
A. Penna de Azevedo, Rio de Janeiro
Martin Dupray, Hutchinson, Kansas
Alan F. Ferguson, Sr., Gainesville, Fla.
George E. Gage, Amherst, Mass.
Berry E. Gay, Decatur, Ill.
Max Lowenthal, Montclair, N.J.

Kenneth L. Mahoney, Kansas City, Mo.
Henry E. Medberry, Washington, D.C.
O. W. H. Mitchell, Syracuse, N.Y.
Bruno L. Monias, Chicago, Ill.
Mary Slattery Stewart, Chicago, Ill.
B. F. Sturdivant, Pasadena, Calif.
Robert W. Terry, Columbus, Ohio

ADDRESSES WANTED

An ever-recurring problem of the office of the Secretary-Treasurer is the maintenance of an accurate mailing list. It is important that our records be kept up to date, and we want to ensure that our members will receive the News Letters and other communications. When mail is returned an effort is made to locate the "missing" members, but unfortunately this is not always successful. Listed below are the names and the last known addresses of 37 members. Any information about their present address or a correction of the address as given here will be greatly appreciated.

Ackerman, Mary E., % R.V.Hedberg, 403 N. Market St., Frederick, Md.
Albert, Helen F., Scottish Rite Dormitory, Box 210, Austin, Texas
Appel, Newby D., 1653 Tremont Ave., Cincinnati 14, Ohio
Beakley, John Wm., 331½ N. Cherry, Tucson, Arizona
Dunham, H.G., 48 Oxford Road, Pleasant Ridge, Mich.
Fawcett, Margaret L., % Dr.R.A.Boak, Birmingham General Hospital, Van Nuys, Calif.
Friedman, Stanley, 311 East Green St., Champaign, Ill.
Goldwasser, Robert A., 78 Wall St., New Haven, Conn.
Griffith, Bettie Rhys, 81 Mt. Vernon St., Boston, Mass.
Hasson, Margo, 1335 Findlay Ave., New York 56, N.Y.
Haven, Sylvia S., The Queen's Hospital, Honolulu, T.H.
Hite, K. Eileen, The Woodlawn Hospital, 60th St. & Drexel Ave., Chicago 37, Ill.
Joslyn, Dwight A., 18769 Saratoga Blvd., Birmingham, Mich.
Legator, Marvin, Parade Ground Unit E320-3, Champaign, Ill.

Loughlin, James F., % Cia Ron Carioca Destileria, Inc., P.O. Box 175, San Juan, P.R.
 Lyon, Florice Dunham, 128 N. Grant St., W. Lafayette, Ind.
 Mandel, Sherl, 35-15 75th St., Jackson Heights, L.I., N.Y.
 McCabe, A.M., 1508 Alabama Ave., Durham, N.C.
 Murray, Lawrence O.H., Flavet III, Apt. 203A, Univ. of Florida, Gainesville, Fla.
 Newhagen, Geraldine B., 1318 Hyde Blvd, Apt. D2, Chicago, Ill.
 Paperno, Seymour, 1338 1/2 Kellam Ave., Los Angeles 26, Calif.
 Radecki, Edwin A., 147 Hamilton Ave., New Brunswick, N.J.
 Regan, Margaret A., 73 Hillside Ave., Pearl River, N.Y.
 Rose, Kenneth D., Cincinnati General Hospital, Cincinnati 29, Ohio
 Schayer, Lillian, 215 West 70th St., New York 23, N.Y.
 Schreiber, Minnie, 701 Fern St., Waycross, Ga.
 Sellers, Mrs. George P. Jr., 3228 Bishop-Clifton, Cincinnati, Ohio
 Smith, Robert M., Research Dept., Parke Davis & Co., Detroit 32, Mich.
 Stadtman, Thressa C., 1643 La Loma Ave., Berkeley 9, Calif.
 Talbert, Thomas L., Res. Dept., Natl. Jewish Hospital, 3800 E. Colfax, Denver 6, Colo.
 Timmons, Durward E., 2809 Salado St., Austin, Texas
 Wallace, Dorothy Lois, 225 Avondale, Houston 6, Texas
 Weiss, Daniel L., 630 West End Ave., New York, N.Y.
 Weiss, Maurice Louis, P.O. Box 355, Rock Island, Ill.
 Wilson, Glenn G., 303 Edward Ave., Pittsburgh 16, Pa.
 Yieh, Tien-hsing, Dept. of Bact. & Serol., Natl. Defense Medical Center, Shanghai Civic Center, Shanghai 30, China
 Ziffer, Jack, Res. Dept., A.E. Staley Mfg. Co., Decatur, Ill.

OFFICERS OF LOCAL BRANCHES

Recent elections of officers of Local Branches have been reported as follows.

	<u>South. California</u>	<u>Connecticut Valley</u>	<u>Intermountain</u>	<u>Northwest</u>
President	J.W. Bartholomew	H.H. Plough	L.R. Curtis	C.M. Eklund
Vice-President	C.E. ZoBell	Sr. Maria Benigna Johnson	Dorothy Faris	B.S. Henry
Secretary-Treasurer	W.D. Rosenfeld	D. Evelyn West	P.S. Nicholes	Eliz. R. Hall
Councilor	J.F. Kessel			H.C. Douglas

MEETINGS OF LOCAL BRANCHES

Allegheny Branch (John C. Garey, Secretary-Treasurer)

Fourth general meeting, October 15, 1949, University of West Virginia, Morgantown.

1. Studies of the bacterium responsible for iron oxidation in acid-mine drainage, by A.R. Colmer, M.E. Hinkle and K.L. Temple, University of West Virginia.
2. Brucella agglutinin-blocking phenomenon in bovine sera, by Charles D. Cox and Leon J. Kutner, Pennsylvania State College.
3. A study of combination of tissues from different species in flask cultures, by J.S. Youngner and Clifford Grobstein, National Cancer Institute, Bethesda, Md.
4. Bacterial tests for the toxicity of industrial wastes, by Frederick Weber, Jr. and Robert W. Stone, Pennsylvania State College.
5. Newer developments in the field of Rh, by Bettina B. Carter, Institute of Pathology, Western Pennsylvania Hospital, Pittsburgh.
6. Biophysical studies on viruses, by Max A. Lauffer, University of Pittsburgh.

Southern California Branch (William D. Rosenfeld, Secretary-Treasurer)

Joint session with the Pacific Division of the Society for Experimental Biology and

Medicine; held June 17, 1949, during the annual meeting of the Pacific Division of the American Association for the Advancement of Science, University of British Columbia, Vancouver.

1. Effect of Theiler's GD VII virus on the incorporation of C^{14} -glucose in one day old mouse brain cultures, by M.E.Rafelson, R.J.Winzler and H.E.Pearson, University of Southern California and the Los Angeles County General Hospital.
2. Some effects of high hydrostatic pressure on marine bacteria, by C.H.Oppenheimer and C.E.ZoBell, Scripps Institution of Oceanography, University of California, La Jolla.

October 6, 1949, University of California, Los Angeles.

1. Development of large bodies in *Proteus* OX-19. Film prepared by W.G.Hutchinson and Henry Stempen, University of Pennsylvania, presented by J.W.Bartholomew, University of Southern California, Los Angeles.
2. Growth studies of spirochetes from acute Vincent's angina, by L.A.Siewert, University of California, Los Angeles.
3. Studies on prodigiosin, by Arthur Lack, University of California, School of Medicine, Los Angeles.
4. Coccidiomycosis in Southern California, by J.F.Kessel, University of Southern California, School of Medicine, Los Angeles.
5. Laboratories visited abroad, by Meridian R. Ball, University of California, Los Angeles.

Connecticut Valley Branch (D: Evelyn West, Secretary-Treasurer)

Annual meeting, November 12, 1949, Yale University Graduate School, New Haven.

1. A nutritional study of *Chromobacterium violaceum* and some of its variants, by Tefta Zografli and Ethel Eltinge, Department of Plant Science, Mount Holyoke College, South Hadley, Mass.
2. Etiology of otomycosis, by Leonor Haley, Department of Bacteriology, Yale University, New Haven.
3. The growth of stenothermophilic aerobic sporogenous rods, by Robert C. Cleverdon, Department of Bacteriology, University of Connecticut, Storrs.
4. Studies on viruses pathogenic for infant mice (Coxsackie group), by J.L.Melnick, N. Ledinko, A.Kaplan and L.Kraft, Yale University School of Medicine, New Haven.

Society of Illinois Bacteriologists (Leslie R. Hedrick, Secretary-Treasurer)

Fall meeting, October 14, 1949, St. Nicholas Hotel, Springfield.

1. Some observations on the use of Tween 80 in media for the microbiological assay of riboflavin, by Augusta Sturmer, Research Dept., Hiram Walker & Sons, Peoria.
2. Some responses to the minerals of nutrient solution in the growth and metabolism of *Streptomyces griseus* for streptomycin production, by H.H.Thornberry, University of Illinois, Urbana.
3. Studies of the nutritional requirements of *Pseudomonas putrefaciens*, by George W. Reinbold, University of Illinois, Urbana.
4. The biosynthesis of riboflavin by *Ashbya gossypii*, by Harlow H. Hall, Northern Regional Research Laboratory, Peoria.
5. Nutritional studies on Group A streptococci, by Hutton D. Slade and Grace A. Knox, Rheumatic Fever Research Institute, Northwestern University Medical School, Chicago.
6. The action of penicillin in the presence of cysteine hydrochloride, by L.J.LeBeau and M. Novak, University of Illinois Medical School, Chicago.
7. The use of enterococci tests in determining the quality of swimming waters, by R. M. Scott, Dept. of Public Health, Springfield.
8. New developments in sanitary bacteriological techniques, by J.C.McCaffrey, Illinois

Department of Public Health, Chicago.

9. Coproantibodies and their relationship to intestinal immunity in animals and man, by William Burrows, University of Chicago.

Indiana Branch (Alfred R. Stanley, Secretary-Treasurer)

Fall meeting, held jointly with the Bacteriology Division, Indiana Academy of Science, November 4, 1949, Wabash College, Crawfordsville.

1. Multiplication of *Brucella* in the yolk sack of embryonated chicken eggs, by Kathleen Gay and Samuel R. Damon, Indiana State Board of Health.
2. The acetate-acetyl phosphate system in *Leuconostoc*, by R.D.DeMoss and I.C.Gunsalus, Indiana University.
3. Inhibition of the dissimilation of pyruvate by phenylpyruvate, by C.H.Werkman and D.D.Watt, Iowa State College and Purdue University.
4. A new crystalline antibiotic from an unidentified *Streptomyces*, by R.L.Harned, P.H.Hidy, C.J.Corum and K.L.Jones, Commercial Solvents Corporation and University of Michigan.
5. Effect of some haloacylamides on multiplication of the vaccinia virus, by R.L.Thompson and Marian L. Wilkin, Indiana University Medical Center.
6. The effect of combinations of drugs and antibiotics on bacteria responsible for urinary infections, by Marion J. McBurney, DePauw University.
7. Microbial assays of lysozyme, by A.N.Smolelis and S.E.Hartsell, Purdue University.
8. Plate assay methods for Vitamin B₁₂, by I.R.Cohen, Commercial Solvents Corporation.
9. Round table discussion on microbial genetics, S.E.Luria, convenor.
Streptomycin dependence in the study of bacterial genetics, by G.Bertani, Indiana Univ.
Reparation of radiation damage by visible light, by A.Novick, Univ. of Chicago.
Genetics and bacteriophage reproduction, by S.E.Luria, Indiana Univ.
Problems of phenotype determination at the enzyme level, by S.Spiegelman, U.of Illinois.

Intermountain Branch (Paul S. Nicholes, Secretary-Treasurer)

Fifth semiannual meeting, October 8, 1949, University of Utah.

1. Role of Pleuropneumonia organisms in human disease, by John C. Nunemaker, University of Utah and the Veterans Hospital.
2. A new culture medium for *Brucella abortus*, a study in growth factors, by Wilford Wegner, Division of Laboratories, Utah State Health Department.
3. Salt Lake City sanitary survey, by Sidney Gilchrist, Salt Lake City Dept. of Health.
4. Experimental intra-ocular infections with mumps virus, by Verne Bolin, University of Utah, College of Medicine.
5. Stability of Rh factors in mailed samples, by C.I.Argall, Division of Laboratories, Utah State Dept. of Health.
6. Variability as the cause of taxonomy troubles, by Otto Rahn, Idaho State College, Pocatello.
7. Poliomyelitis testing program, by L.P.Gebhardt, Univ.of Utah, College of Medicine.

Kentucky-Tennessee Branch (James C. Humphries, Secretary-Treasurer)

Fall meeting, October 15, 1949, University of Kentucky, Lexington.

1. Attempts to induce streptomycin resistance in five microorganisms, by Nathaniel A. Harrison and Margaret Hotchkiss, University of Kentucky.
2. Growth of *Proteus vulgaris* in certain synthetic and semi-synthetic media, by Melvin Lieberman and Mary Hardin, University of Kentucky.
3. A purine-requiring strain of *Photobacterium fischeri*, by William N. Pearson, Vanderbilt University.

4. Growth factor requirements of Candida albicans Y-475 and Mycoderma vini Y-939, by Emily Bell, Vanderbilt University.
5. The nutrition of Monosporium apiospermum, by Frederick T. Wolf, Robert B. Bryden and John A. MacLaren, Vanderbilt University.
6. The growth of Trichophyton mentagrophytes and five of its variants as affected by several nitrogen sources, by Ilda McVeigh and Florence Campbell, Vanderbilt University.
7. Carbohydrate and other requirements in the cultivation of Endamoeba histolytica in a modified thioglycollate medium, by Fred W. Ryden, Vanderbilt University.
8. Further observations on the growth requirements of Endamoeba histolytica, by James G. Shaffer, School of Medicine, University of Louisville.
9. A method of effecting zygospore germination in certain Chlorophyceae, by Richard C. Starr, Vanderbilt University.
10. Studies on the nature of the coenzyme(s) of aspartic acid, serine and threonine deaminases, by John F. Christman and Herman C. Lichstein, University of Tennessee.
11. The oxidation of glucose and glycerol by Lactobacillus casei, by Mary Hardin, University of Kentucky.
12. Nucleic acid synthesis in cultures of Bacillus subtilis, by Lawrence Morse, Oak Ridge National Laboratory.
13. Studies on Central Kentucky water supplies, by R.H.Weaver, University of Kentucky.
14. The combined effects of surface active and chemotherapeutic agents on Mycobacterium tuberculosis var. hominis H37Rv strain, by Alexander Kimler, Ilda McVeigh and Warren McA. Deacon, Vanderbilt University.
15. The effect of non-ionic surface active agents on the growth of microorganisms, by Irving Millman and Margaret Hotchkiss, University of Kentucky.
16. The effect of surface-active agents on the growth of mycobacteria, by Robert L. Stone and Margaret Hotchkiss, University of Kentucky.
17. Electron micrograph studies on bacteriophages, by O.F.Edwards, University of Kentucky.
18. Anti-atopic reagin, by Margo Wolf and M. Scherago, University of Kentucky.
19. Movie on micromanipulation, by courtesy of A.S.Aloe Company, St. Louis, Missouri.

Maryland Branch (Carl Lamanna, Secretary-Treasurer)

October 20, 1949, The Johns Hopkins School of Hygiene and Public Health, Baltimore.

Paper of the evening: Some problems in soil microbiology, by A.G.Norman, Camp Detrick, Frederick, Maryland.

Michigan Branch (Elizabeth J. Cope, Secretary-Treasurer)

October 6, 1949, Michigan State College, East Lansing.

1. Comparative study of media for the isolation of streptococci from water, by Edward B. Seligmann and W.L.Mallmann, Michigan State College.
2. Cynematin, an antibiotic produced by a strain of Tilachlidium, by R.Y.Gottshall, J.M.Roberts and Lucille M. Portwood, Michigan Dept. of Health.
3. The use of streptomycin in tuberculous meningitis, by Donald Young, Herman Kiefer Hospital, Detroit Dept. of Health.
4. Studies on the nature of zone reactions in serological tests for Pullorum diseases in turkeys, by H.J.Stafseth, Michigan State College.

New York City Branch (Richard Donovanick, Secretary-Treasurer)

49th meeting, October 11, 1949, Cornell University Medical College, New York.

A symposium was held on The Role of Bacteria in Nutrition, under the chairmanship of Dr. Norman Jolliffe.

1. The role of vitamin synthesis by intestinal bacteria in animal nutrition, by A. Katherine Miller, Sharp and Dohme, Inc., Glenolden, Pa.
2. The role of rumen bacteria in the nutrition of their host, by Lorraine S. Gall, National Dairy Research Laboratories, Inc., Oakdale, Long Island.
3. The role of microbiology in the field of nutrition, by Louis Siegel, Food Research Laboratories, Inc., Long Island City.
4. The role of microorganisms in the manufacture of cheese, by Franklin W. Barber, National Dairy Research Laboratories, Inc., Oakdale, Long Island.

Society of North Carolina Bacteriologists (J.B. Edwards, Secretary-Treasurer)

Fall meeting, October 8, 1949, Chapel Hill.

1. Treponemal immobilizing antibodies in syphilis, by Harold J. Magnuson, School of Public Health, Chapel Hill.
2. Certain factors affecting the growth of Influenza virus in embryonated eggs, by Anne Beasley, North Carolina University School of Medicine.
3. Some immunologic studies on Blastomycosis, by Donald S. Martin, Duke University School of Medicine, Durham.
4. Film: Yeasts from brines, by J.L. Etchells and T.A. Bell, United States Department of Agriculture, Raleigh.
5. After dinner address: Laboratory studies on Leptospirosis, by Parker R. Beamer, Bowman Gray School of Medicine, Winston-Salem.

Northwest Branch (Esther A. Duchow, Secretary-Treasurer)

Eighth meeting, September 24, 1949, State College of Washington, Pullman.

1. The morphology of Rhodomicrobium and Hyphomicrobium, by H.C. Douglas, University of Washington.
2. A Rickettsial agent as the probable cause of salmon poisoning in dogs, by Donald R. Cordy, College of Veterinary Medicine, State College of Washington.
3. A report on the International Congress of Dairy Science, Stockholm, Sweden, 1949, by N.S. Golding, State College of Washington.
4. Serological relationship of small colony types of Corynebacterium diphtheriae and diphtheria-like bacilli, by V.J. Freeman, University of Washington.
5. A study of grinding techniques for bacterial cells, by W.B. Dockstader, Dept. of Bacteriology and Poultry Husbandry, State College of Washington.

Eastern Pennsylvania Branch (W. G. Hutchinson, Secretary-Treasurer)

209th meeting, October 25, 1949, University of Pennsylvania Museum.

Paper of the evening: Extension of the pure culture concept through the use of germ-free animals, by James A. Reyniers, University of Notre Dame, Notre Dame, Indiana.

Southeastern Branch (Louise R. Cason, Secretary-Treasurer)

November 4, 1949, University of Alabama, Tuscaloosa, Alabama.

1. Motion picture: Preservation of bacteria in vacuo, by Elizabeth I. Parsons, Communicable Disease Center, Atlanta, Ga.
2. Adaption of the linear diffusion method for the microbiological assays, by Seton Edson and Arthur F. Novak, University of Florida.
3. The in vitro test for virulence of C. diphtheriae, by Elizabeth O. King, Martin

Frobisher, Jr., and Elizabeth I. Parsons, Communicable Disease Center, Atlanta, Ga.

4. Biotin and oleic acid in the metabolism of Leuconostoc, by Warner W. Carlson and Virginia Whiteside-Carlson, Medical College of Alabama.
5. Newer approaches to the chemotherapy of virus diseases, by Morris Schaeffer, Virus and Rickettsia Laboratory, Montgomery, Ala.
6. Recovery of the Cocksackie virus (Dalldorf and Sickles) from different human sources, by Beatrice F. Howitt, U.S. Public Health Service, Virus Laboratory, Montgomery, Ala.
7. Results with bacterial stains in tissues using both gram and acid-fast technics, by George P. Blundell, University of Alabama, School of Dentistry.
8. The identification of the products of pectinase action on human tissues (preliminary note), by J.C.Saunders, Jane E.Cason, G.B.Penton, and J.F.A.McManus, Medical College of Alabama.
9. A study of the flora and factors involved in bovine mastitis, by Thomas A. Scott and W.R.Carroll, University of Florida.
10. After dinner address: New frontiers, by Joseph F. Volker, Dean of the University of Alabama Dental School.

Theobald Smith Society (New Jersey) (Marjory Darken, Secretary)

October 20, 1949, Rutgers University, New Brunswick.

1. Applications of manometric techniques in microbiology, by Wayne W. Umbreit, Merck Institute for Therapeutic Research.
2. Investigations on the mode of action of streptomycin, by Evelyn L. Oginsky, Merck Institute for Therapeutic Research.

Washington Branch (R.C.Dawson, Secretary-Treasurer)

169th meeting, October 25, 1949, Army Medical School, Washington, D.C.

1. The growth of fungi on lignin, by William C. Day, Michael J. Pelczar and Sidney Gottlieb, University of Maryland, College Park.
2. A comparison of the effect of six antibiotics on experimental typhoid infections in mice, by Robert Reedy, Stanley Wolfson and Henry Welch, Food and Drug Administration, Federal Security Agency.
3. The interaction of starches, fatty acids and sterols in the nutrition of an entozoic amoeba, by A.M.Griffin and W.G.McCarten, School of Medicine, The George Washington University.

BOOK NOTES

Les Ultravirus des Maladies Humaines, by C. Levaditi and P. Lépine. 1907 pages, 2 volumes, 3 plates in color, 368 illustrations in black and white, 2nd edition. Librairie Maloine, Paris, 1948. 6,500 francs.

It has been ten years since the first edition of this book was published and, as the editors note, this period has witnessed very great advances in the virus field. Lépine and H.Train, who has assisted him in getting together the 1948 edition, have produced an authoritative treatise which is up-to-date, well printed, well indexed, admirably documented and reasonably well illustrated. The three color plates are excellent and the text cuts, with a few unimportant exceptions, are quite satisfactory, although it will be found helpful in future editions to number them consecutively throughout the entire book rather than only for each section (Fig.1 may be a case of smallpox, the betatron, or a section of rabbit encephalitis, according to which section one is reading). There are some 32 of these major sections. Methods, virus biology, epidemiology, philosophy and related subject matter are presented fully as well as the more routine material dealing with the diseases discussed.

The references include those of recent date and outstanding papers from the entire

scientific world. An Englishman has written the section on ultrafiltration and a Massachusetts pathologist that on zona or herpes zoster. These volumes are as authoritative as van Rooyen and Rhodes and as readable as Rivers and associates. Certainly every serious student should have access to all three of these excellent texts. It is too bad, perhaps, that all were published in 1948, but this fact may actually be a characteristic of the maturation of our knowledge about viruses.—Leland W. Parr

The Epidemiology of the Hemolytic Streptococcus, by Alvin F. Coburn and Donald C. Young. 229 pages, 29 figures. The Williams and Wilkins Company, Baltimore 1949. \$4.00

The report derives from data which were collected by the Bureau of Medicine and Surgery of the Navy Department in a study of streptococcal diseases in Naval installations during the recent World War. Infections due to these organisms were an important cause of illness and were found to be caused by certain highly pathogenic strains. The spread of infection from person to person, barrack to barrack, and camp to camp over the country is described with the aid of many tables and figures. A number of epidemiological facts are confirmed and new information is added.

Clinical Diagnosis by Laboratory Examinations, by John A. Kolmer. 1212 pages, 93 figures, including 16 color plates. 2nd Edition. Appleton-Century-Crofts, Inc., New York. 1949. \$12.00.

The first edition, which appeared six years ago, has been completely revised and new material, based upon recent developments, has been included. Among the discussions of interest to microbiologists are those on the antibiotics, rickettsial and viral diseases, various complement fixation, agglutination and skin tests, and several other subjects. As was the aim in the first edition, this volume is designed to serve as a practical guide to the diagnosis of disease through the application and interpretation of laboratory tests.

Germ-free Life Studies, Edited by James A. Reyniers. 162 pages, 41 figures. Number 2, February 1949 of Lobund Reports. The University Press, Notre Dame, Indiana. \$2.50 (cloth); \$1.75 (paper).

Three articles by Dr. Reyniers and his associates on "Rearing germ-free chickens", "Some observations on germ-free bantam chickens" and "The need for a unified terminology in germ-free life studies". A detailed, illustrated description of the methods employed in these significant studies with some observations on the nutrition of chickens reared in a germ-free environment.

New Gould Medical Dictionary, Edited by Harold W. Jones, Normand L. Hoerr and Arthur Osol. 1294 pages, 252 illustrations. The Blakiston Company, Philadelphia, 1949. \$10.75.

Based upon the fifth edition of Gould's Medical Dictionary, this volume was compiled by an editorial board and nearly 100 contributors whose experience in the fields of their specialties lends authority to the work. There are numerous useful tables which are correlated with 45 illustrative plates. The type contributes materially to the ease of locating terms.

Advances in Enzymology, Edited by F.F. Nord. 760 pages, 97 figures. Vol. IX. Interscience Publishers, New York, 1949. \$9.00.

Physical Methods of Organic Chemistry, Part I, Edited by Harold Weissberger. 1072 pages, 395 figures. 2nd Edition. Interscience Publishers, New York, 1949. \$12.50.

Annual Reviews of Biochemistry, Edited by J. Murray Luck. 739 pages. Annual Reviews, Inc., Stanford, California, 1949. \$6.00.

Haemoglobin, Edited by F. J. W. Roughton and J. C. Kendrew. 317 pages, 96 figures. Interscience Publishers, New York, 1949. \$3.50.

A commemorative volume honoring Sir Joseph Barcroft, representing a symposium held at Cambridge, England, in June 1948.

Your Career, by Ed Cunningham and Leonard Reed. 72 pages. Simon and Shuster, New York, 1949.

"How to choose your career and how to prepare for it"; contains information about 84 professional fields, including bacteriology and several other branches of the biological sciences. Useful for those engaged in guidance and student counselling.

NEW MEMBERS

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